

K&S-101US

PATENT

1725  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Benjamin Sonnenreich et al. : Art Unit: 1725  
Serial No.: 09/772,421 : Examiner: Len Tran  
Filed: January 30, 2001 :  
For: BONDING TOOL WITH :  
POLYMER COATING :

AMENDMENT

RECEIVED  
DEC 31 2002  
TC 1700

Assistant Commissioner for Patents  
Washington, D.C. 20231

S I R :

Responsive to the Office Action dated **September 23, 2002**, please amend the above-identified application as follows:

CLAIMS:

Please replace claims 7 and 8 with the following amended claims:

- 1 7. A capillary bonding tool according to claim 1, wherein the coating  
2 is at least one of i) a polymer, ii) an Alumina, iii)  $\text{Si}_3\text{N}_4$  iv) silica v) a combination of  
3 12% silica and 88% Alumina, and vi) a Diamond like carbon (DLC).
- 1 8. A bonding tool for bonding a wire to a substrate, the bonding tool  
2 having a body and a working tip coupled to one end of the body, and comprising:  
3 an orifice extending along a longitudinal axis of the body and the working  
4 tip; and  
5 a coating disposed over at least a portion of a surface of the orifice,  
6 wherein the coating is a polymer disposed along an interior surface of the  
7 orifice and one of i) an Alumina, ii)  $\text{Si}_3\text{N}_4$ , iii) silica, iv) a combination of 12% silica
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8 and 88% Alumina, and v) a Diamond like carbon (DLC) disposed along an exterior  
9 portion of the orifice.

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